ICCFD10

INTERNATIONAL CONFERENCE ON COMPUTATIONAL FLUID DYNAMICS

Final Call for Papers

UNIVERSITY OF OXFORD

BSC Barcelona Supercomputing Center Centro Nacional de Supercomputación

JULY 9-13, 2018
BARCELONA, SPAIN

ICCFD is a leading international conference devoted to all innovative aspects of CFD, fundamental and applied. This biennial event began in the year 2000 with the merger of two important CFD conferences: the International Conference on Numerical Methods in Fluid Dynamics (ICNMFD), and the International Symposium on Computational Fluid Dynamics (ISCFD). Past events include Kyoto (2000), Sydney (2002), Toronto (2004), Ghent (2006), Seoul (2008), St Petersburg (2010), Hawaii (2012), Chengdu (2014) & Istanbul (2016) .

This year's conference is hosted in the beautiful city of Barcelona and will include a combination of five inspiring plenary talks, 4 and three parallel sessions of the latest fundamental and applied CFD research.

Opening Address – Dr. Jaiwon Shin, NASA Associate Administrator for Aeronautics

Plenary Speakers

- Prof. Michael Leschziner, (*Imperial College London*): DNS-derived large-scale/small-scale interactions in near-wall turbulence at elevated Reynolds numbers
- Dr Mujeeb Malik (*NASA Langley Research Center*): NASA's Revolutionary Computational Aerosciences and CFD Vision 2030
- Prof. Kai Schneider (*Université Institut de Mathématiques de Marseille*): Massively parallel simulations of insect flight in turbulence
- *Prof. Chongam Kim (Seoul National University):* Shock-Capturing Strategies for High-Order CFD Methods: Progresses and Issues
- Prof. Arnaud Mura (*CNRS PPrime Institute of Poitiers*): High-fidelity numerical simulation of reactive high-speed flows

Keynote Speakers

- Prof. Rainald Löhner (*George Mason University*) - Towards Overcoming the LES Crisis
- Prof. Roel Verstappen (*University of Groningen*) - Minimum-dissipation models for LES
- Prof. Istvan Reguly (*PPCU, Budapest*) - Productivity, Performance, and Portability for CFD codes with Domain Specific Languages
- Dr Cetin Kiris *(NASA Ames Research Center) – Title TBC*

Topics

Innovative algorithm development: higher-order methods, lattice-Boltzmann methods, machine-learning and AI, parallel algorithms, automatic mesh refinement techniques, grid generation, immersed boundary methods

Advances in modeling of flow physics : turbulence (RANS,LES,DNS, Hybrid methods), transition, combustion, multi-phase, supersonic/hypersonic flows

Applied applications: aeroacoustics, automotive, aerospace, flow control, biomedical fluid mechanics, renewables and turbomachinery

Important Dates

Abstract deadline – Extended to Jan 31st, 2018
Notification of Acceptance – March 1st, 2018
Final Paper Deadline – April 30th, 2018
Early Registration Deadline – May 31st, 2018

Conference Chairs

Dr Neil Ashton - University of Oxford
Dr Guillaume Houzeaux - Barcelona Supercomputing Centre
Dr Daniel Mira - Barcelona Supercomputing Centre
Dr Mariano Vázquez - Barcelona Supercomputing Centre

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Abstract submissions

Abstracts must be 1-2 pages in length, submission procedure, abstracts and paper templates are available at www.iccfd10.com. Full papers will be up to 25 pages and the best papers will form a special issue in a leading international journal.

Young CFD Investigator Award – in memory of Prof. Kunio Kuwahara

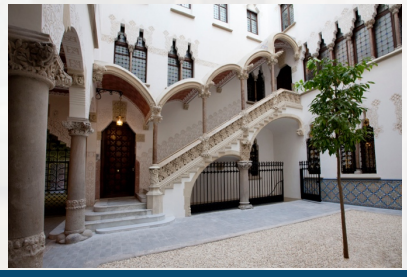
The award is a contribution from the committee members of "International Nobeyama Workshop in honour of Professor Kunio Kuwahara" that was held to honour his remarkable contribution to CFD and international collaborations. Professor Kuwahara undertook pioneering numerical studies on the vortex method in 1970s. For his contributions to CFD, Professor Kuwahara received Awards from the Japan Society of Automobile Engineers, Japan Society of Mechanical Engineers and the Max Planck Research Award. Professor Kuwahara, passed away on 15 September 2008, at the age of 66.

Conditions for Applications:

- Candidate must be 35 years old or younger
- Presentation of the paper by the candidate is required (not co-author)
- Recipient will be selected by ICCFD Executive Committee
- A Plaque and $300 will be awarded during the Thursday evening Banquet

Venue

Casa Pacaya or commonly known as Palau Macaya is a beautiful modernist building designed in 1901 by one of the most famous architects of his era, Josep Puig i Cadafalch. Palau Macaya was built in the Gothic style with beautifully engraved designs on the walls and intricate carved arches.



CATEGORY	BY MAY 31	AFTER MAY 31
Full Technical Program (Includes 5 days Technical Program, breaks, 5 lunches, Welcome Reception, Wine Tasting and Banquet.)	€500	€550
Students* (Includes 5 days Technical Program, welcome reception, breaks and 5 lunches ONLY. Students may separately purchase tickets for the wine-tasting and Banquet.)	€300	€350
Event Tickets for Guests and Students Monday Welcome Reception Thursday Banquet	 €75 €75	 €100 €100

*This special rate is for full-time students who are currently registered at a College or University. Student ID may be requested at registration for verification.